NC/QC/DD-MVR/2018-19/C1 Date: 17-09-2018

1. TEST REPORT ON CEMENT:

Sub: Testing of 53 Grade Cement Sample (IS 12269-1987).
{Project*: Improvements to roads and drains at Medarahalli village main road and surrounding areas in Ward No. 12 Shettyhalli, Shettyhalli Sub-division.}
Ref.: Material testing/QC/18-19,
Report Required for: Assistant Executive Engineer,
Shettyhalli Sub Division,
BBMP, Bangalore.
Name of the Agency/Contractor*: Technical Manager, KRIDL.

PHYSICAL TESTS ON CEMENT

Brand : ULTRATECH
Grade * : 53,
Type * : O.P.C

TABLE 1.1:

SL No	Name of Test	Test Results	Requirements as per IS 8112-1989
1	Initial setting time	**164 min**	Shall not be less than 30 min
2	Final setting time	**251 min**	Shall not be more than 600 min
3	Fineness (by dry sieving on IS 90 micron sieve)	**2.14 %**	Not to exceed 10.0%
4	Soundness test(by Le-Chatelier's method)	**1.91 mm**	Shall not be more than 10 mm
5	Compressive strength a) 3 days (average of three results)	**28.61 N/Sq mm**	Shall not be less than 27 N/Sqmm

*As furnished by Client.
The Results relate only to the items tested.

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For Newzen Consultants Bangalore
Proprietor

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NC/QC/DD-MVR/2018-19/C2 Date: 19-09-2018

1. TEST REPORT ON CEMENT:

Sub: Testing of 53 Grade Cement Sample (IS 12269-1987).
{Project*: Improvements to roads and drains at Medarahalli village main road and surrounding areas in Ward No. 12 Shettyhalli, Shettyhalli Sub-division.}
Ref.: Material testing/QC/18-19,
Report Required for: Assistant Executive Engineer,
Shettyhalli Sub Division,
BBMP, Bangalore.
Name of the Agency/Contractor*: Technical Manager, KRIDL.

PHYSICAL TESTS ON CEMENT

Brand : ULTRATECH
Grade * : 53,
Type * : O.P.C

TABLE 1.1:

SL No	Name of Test	Test Results	Requirements as per IS 8112-1989
1	Initial setting time	**156 min**	Shall not be less than 30 min
2	Final setting time	**271 min**	Shall not be more than 600 min
3	Fineness (by dry sieving on IS 90 micron sieve)	**2.03 %**	Not to exceed 10.0%
4	Soundness test(by Le-Chatelier's method)	**2.29 mm**	Shall not be more than 10 mm
5	Compressive strength a) 3 days (average of three results)	**28.41 N/Sq mm**	Shall not be less than 27 N/Sqmm

*As furnished by Client.
The Results relate only to the items tested.

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NC/QC/DD-MVR/2018-19/C3 Date: 22-09-2018

1. TEST REPORT ON CEMENT:

Sub: Testing of 53 Grade Cement Sample (IS 12269-1987).

{Project*: Improvements to roads and drains at Medarahalli village main road and surrounding areas in Ward No. 12 Shettyhalli, Shettyhalli Sub-division.}

Ref.: Material testing/QC/18-19,

Report Required for: Assistant Executive Engineer,
Shettyhalli Sub Division,
BBMP, Bangalore.

Name of the Agency/Contractor*: Technical Manager, KRIDL.

PHYSICAL TESTS ON CEMENT

Brand : ULTRATECH
Grade * : 53,
Type * : O.P.C

TABLE 1.1:

SL No	Name of Test	Test Results	Requirements as per IS 8112-1989
1	Initial setting time	**169 min**	Shall not be less than 30 min
2	Final setting time	**284 min**	Shall not be more than 600 min
3	Fineness (by dry sieving on IS 90 micron sieve)	**1.99 %**	Not to exceed 10.0%
4	Soundness test(by Le-Chatelier's method)	**2.06 mm**	Shall not be more than 10 mm
5	Compressive strength a) 3 days (average of three results)	**29.15 N/Sq mm**	Shall not be less than 27 N/Sqmm

*As furnished by Client.

The Results relate only to the items tested.

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NC/QC/DD-MVR/2018-19/CA1 Date: 22-09-2018

1. TESTING OF COARSE AGGREGATES (20 mm):

Sub: Testing of Construction Materials.

{Project*: Improvements to roads and drains at Medarahalli village main road and surrounding areas in Ward No. 12 Shettyhalli, Shettyhalli Sub-division.}

Ref.: Material testing/QC/18-19,

Report Required for: Assistant Executive Engineer,
Shettyhalli Sub Division,
BBMP, Bangalore.

Name of the Agency/Contractor*: Technical Manager, KRIDL.

Table - 1.1 : SIEVE ANALYSIS :

IS Sieve Size, mm	Percentage passing	Requirements as per IS 383-1970 (Reaffirmed on 2002) % Passing	
	20 mm Sample	Single size	Graded
40 mm	**100.00**	100.00	100.00
20 mm	**98.25**	85-100	90 - 100
10 mm	**46.10**	0 - 20	25 - 55
4.75 mm	**6.80**	0 - 5	0 - 10

TABLE 1.2 :

SL No	Test conducted	Results	Requirements as per IS:383-1970 & Tests Conforms to IS 2386(Part I to IV) – 1963 (Reaffirmed on 2002)
1.	Flakiness Index	**23.20 %**	Not to exceed 25 %
2.	Crushing value	**29.05 %**	Not to exceed 45 % for concrete other than for wearing surfaces and 30% for concrete for wearing surfaces

*As Furnished by Client.

The Results relate only to the items tested.

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Date: 22-09-2018

TABLE – 2

SL No	Details	For 16 mm	
		Test Results	Min Req. as per IS 1786-2008
01	Observed diameter of bar	**16.0 mm**	16.0 mm
02	Observed Wt/m Length **Kg/m**	**1.589**	1.483
03	Proof stress/Yield stress, fy , **N/mm^2**	**552.0**	500.0
04	Bend/ Re bend Test	**Ok**	---
05	Percentage of Elongation, %	**21.00**	12.00
06	Ultimate Tensile Strength **N/mm^2**	**646.0**	545.0

*As furnished by Client.
The Results relate only to the items tested.

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NC/QC/DD-MVR/2018-19/CB4 Date: 04-10-2018

1. TEST REPORT ON CEMENT CONCRETE CUBES:

Sub: Testing of Concrete Cubes (for 07days Compressive Strength).

{Project*: Improvements to roads and drains at Medarahalli village main road and surrounding areas in Ward No. 12 Shettyhalli, Shettyhalli Sub-division.}

Ref.: Material testing/QC/18-19,

Report Required for: Assistant Executive Engineer,
Shettyhalli Sub Division,
BBMP, Bangalore.

Name of the Agency/Contractor*: Technical Manager, KRIDL.

RESULTS OF COMPRESSIVE STRENGTH ON CEMENT CONCRETE

CUBE SPECIMENS

Dimensions of Specimen : 150 X 150 X 150mm

Grade of Concrete* : M_{20}

TABLE 1.1:

Sl No	Location/ Identification*	Date of Casting*	Date of Testing	Age in Days	C/S Area in mm^2	Maximum Load in K.N	Compressive Strength (N/mm^2)	Avg. Value
1	001	27-09-18	04-10-18	07	22500	385	17.11	**16.81**
	002	‘’	“	‘’	“	370	16.44	
	003	‘’	“	‘’	“	380	16.89	

*As Furnished by Client.

The Results relate only to the items tested.

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NC/QC/DD-MVR/2018-19/CB4A

Date: 25-10-2018

1. TEST REPORT ON CEMENT CONCRETE CUBES:

Sub: Testing of Concrete Cubes (for 28days Compressive Strength).

{Project*: Improvements to roads and drains at Medarahalli village main road and surrounding areas in Ward No. 12 Shettyhalli, Shettyhalli Sub-division.}

Ref.: Material testing/QC/18-19,

Report Required for: Assistant Executive Engineer,
Shettyhalli Sub Division,
BBMP, Bangalore.

Name of the Agency/Contractor*: Technical Manager, KRIDL.

RESULTS OF COMPRESSIVE STRENGTH ON CEMENT CONCRETE

CUBE SPECIMENS

Dimensions of Specimen : 150 X 150 X 150mm

Grade of Concrete* : M_{20}

TABLE 1.1:

Sl No	Location/ Identification*	Date of Casting*	Date of Testing	Age in Days	C/S Area in mm^2	Maximum Load in K.N	Compressive Strength (N/mm^2)	Avg. Value
1	001	27-09-18	25-10-18	28	22500	515	22.89	**22.44**
	002	"	"	"	"	500	22.22	
	003	"	"	"	"	500	22.22	

*As Furnished by Client.

The Results relate only to the items tested.

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